PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2000-092550

(43)Date of publication of application : 31.03.2000

(51)Int.Cl. H04Q 7/22
H04J 13/00
H04Q 7/28

(21)Application number : 11-245423

(22)Date of filing : 31.08.1999

(71)Applicant : TEXAS INSTR INC <TI>

(72)Inventor : RUIZ EVERADO D
HENWOOD ANDREW M

(30)Priority

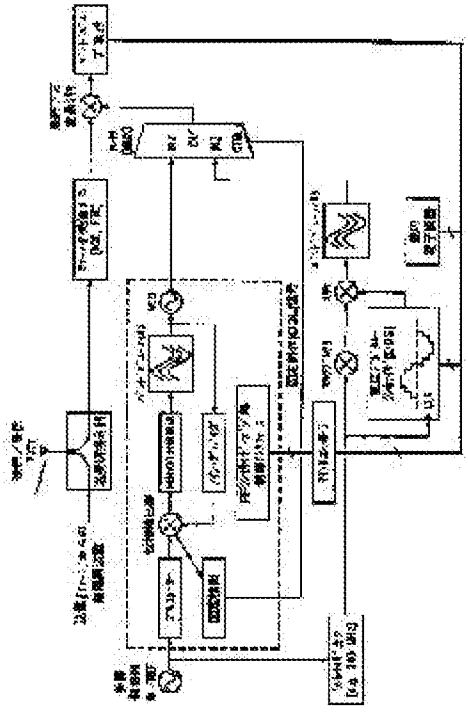
Priority number : 98 143712 Priority date : 31.08.1998 Priority country : US

(54) MOBILE DEVICE SUPPORT HAND-OFF SYSTEM FOR CODE DIVISION MULTIPLE ACCESS NETWORK AND WIDE BAND CODE DIVISION MULTIPLE ACCESS NETWORK

(57)Abstract:

PROBLEM TO BE SOLVED: To reduce interruption in a CDMA network.

SOLUTION: This system for providing hard hand-off of a mobile communication system consists of plural base stations capable of communicating with a mobile station at frequency different from that of other base stastions and arranged in respectively different places and a mobile device for intermittently communicating with one of these base stations. The mobile device includes a 1st normal operation circuit having a comparatively slow tuning period in order to communicate with one of plural base stations and preferably consisting of a PLL in order to provide the operation frequency of the mobile device and a 2nd normal non-operation circuit having a tuning period faster than that of the 1st circuit and preferably consisting of a direct digital synthesizer (DDS) in order to provide frequency different, from the frequency for communicating with one of the base stations.



PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2001-112041

(43)Date of publication of application : 20.04.2001

(51)Int.Cl. H04Q 7/22
H04Q 7/28
H04J 3/00

(21)Application number : 2000-262274

(22)Date of filing : 31.08.2000

(71)Applicant : LUCENT TECHNOL INC

(72)Inventor : ANDERSON CARL RICHARD
HANSON KATHRYN W
MATUSEVICH ALEX
RAUSCHER MARY ELLEN
TOBIAS JONATHAN M

(30)Priority

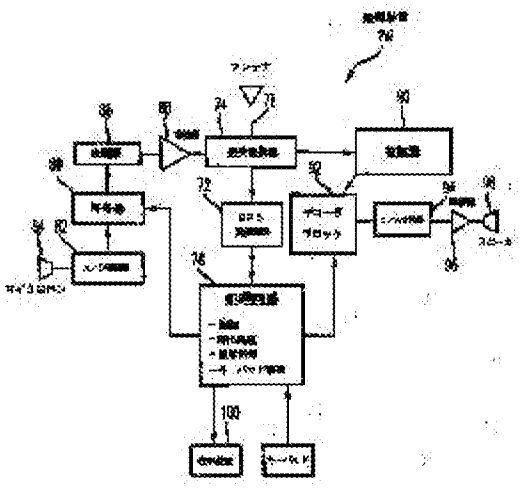
Priority number : 1999 386982 Priority date : 31.08.1999 Priority country : US

(54) HAND-OFF EXECUTION SYSTEM USING POSITION INFORMATION OF WIRELESS UNIT

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a wireless unit hand-off execution system that decides whether or not hand-off is required for a wireless unit and/or decides a base station that hands off the wireless unit by using the position information of the wireless unit.

SOLUTION: For example, the wireless unit has a position system such as a global positioning system GPS to decide its own position. The wireless unit acquires the position information of itself and provides the position information to a base station in service. The base station in service detects that the wireless unit is moving away from a service area of the base station on the basis of the position information and decides the necessity of hand-off. Then the base station in service



transmits at least part of the position information to an MSC, and the MSC can decide the base station that hands off the wireless unit. In other method, the base station in service can decide a base station that hands off the wireless unit.